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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/045,799	01/10/2002	Erwin Roy John	50124/00303 5663		
30636 FAY KAPLUN	7590 04/03/2007 V & MARCIN, LLP		EXAMINER		
150 BROADWAY, SUITE 702			NASSER, ROBERT L		
NEW YORK, NY 10038			ART UNIT	PAPER NUMBER	
			3735		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application	n No.	Applicant(s)			
Office Action Summary		10/045,799	€	JOHN ET AL.			
		Examiner		Art Unit			
		Robert L. N		3735			
Period fo	The MAILING DATE of this communica or Reply	ation appears on the	cover sheet with the	correspondence addre	SS		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAI residue to the provisions of SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statution to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THI 37 CFR 1.136(a). In no ever ication. ory period will apply and will I, by statute, cause the applic	IS COMMUNICATION Int, however, may a reply be expire SIX (6) MONTHS fro cation to become ABANDON	ON. timely filed om the mailing date of this comm NED (35 U.S.C. § 133).	·		
Status					•		
1)⊠	Responsive to communication(s) filed	on <u>15 February 200</u>	<u>7</u> :				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice	under Ex parte Qua	iyle, 1935 C.D. 11,	453 O.G. 213.			
Dispositi	ion of Claims						
5)⊠ 6)⊠ 7)□	Claim(s) <u>45-49,51,52,54,55,65,66,68 a</u> 4a) Of the above claim(s) is/are Claim(s) <u>45-47</u> is/are allowed. Claim(s) <u>48-49,51,52,54,55,65,66,68 a</u> Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from con	sideration.				
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_	ion Papers	_					
-	The specification is objected to by the E The drawing(s) filed on is/are: a		Tablested to by the	Evaminar			
,0)	Applicant may not request that any objection						
	Replacement drawing sheet(s) including th		•		1.121(d).		
11)	The oath or declaration is objected to b	·	• • •	•			
Priority ι	ınder 35 U.S.C. § 119		•				
a)l	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action for the certified copies of application from the International See the attached detailed Office action for the certified copies of application from the International See the attached detailed Office action for the certified copies of application from the International See the attached detailed Office action for the certified copies of the priority do 3. Copies of the certified copies of the priority do 3. Copies of the certified copies of the priority do 4. Copies of the certified copies of the priority do 5. Copies of the certified copies of the priority do 6. Copies of the certified copies of the priority do 8. Copies of the certified copies of the priority do 9. Copies of the certified copi	ocuments have been ocuments have been the priority document Il Bureau (PCT Rule	n received. n received in Applica nts have been received 17.2(a)).	ation No ved in this National Sta	ige		
Attachmen	t(s)						
1) Notice 2) Notice 3) Inform	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTC) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	•	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date			

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The examiner notes that applicant's comments concerning Yasushi have been found persuasive. Accordingly, the finality of the previous action is hereby withdrawn and the following non-final action entered.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 48, 49, 51 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of in view of Yanaqidaira et al 5954629 in view of Yasushi et al 5241967 and Devito. Yanagidaira shows active electrode 12 on a headband 11 that produces eeg signals, an amplifier 24 amplifying the eeg signals, a selectively adjustable filter (see column 4, lines 55-64), that has a center frequency which is adjusted which separates a frequency band (alpha) from the spectrum of frequency bands. It does not have a tone generator. However, Yasushi teaches an identical device that includes and a tone generator 14 producing an audio output corresponding to the signal to help the user to provide feedback and encouragement to the user. As such, it would have been obvious to modify Yanagidaira et al to use such a tone generator, to enhance the evoking of the desired brain waves. The combination does not have the telemetric communication means. DeVito shows a wireless EEG headband device that includes an amplifier mounted on the headband. It would have been obvious to modify the above combination to use such a telemetric communication, as it is merely the substitution of one known communication medium for another. In

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addition, it would have been obvious to provide the headband structure of Devito, as it is merely the substitution of one known equivalent EEG electrode device for another.

Claims 48, 49, 51, 52, 55, 59, 65, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al 5357957 in view of MacNichol Jr 3807387 and Lee 4454886. Itil et al shows a connection means, i.e. a headset which includes a headband, mounting eeg electrodes to the body for measuring eeg signals, wireless radio transmitter (column 6, lines 13-26), to transmit the eeg signals to a remote receiver, and a remote receiver which receives the signals and processes them to identify brain function and/or dysfunction (column 1, lines 25-28) In addition, the processing system, connected to the receiver includes an amplifier and a selectively adjustable filter (see column 6, lines 1-30). The examiner notes the features of the processing mention in the first modified embodiment at the top of column 6 are inherently included in the wireless embodiment discussed in the second paragraph of column 6. The system includes an output device, i.e. crt display, for displaying brain function. It does not specifically state that it identifies brain injury. However, MacNichol teaches that it is well know to use an EEG signal to identify brain death (injury). Hence, it would have been obvious to modify Itil to identify brain death, as it is merely the substitution of one well known use of an EEG for another. In addition, the combination does not specifically state that it produces an audible warning when injury is detected. It does not specifically state that it identifies brain injury. Lee teaches that an audible output based on the brain waves is better as it allows the physician to immediately identify changes in the brain wave signals and it is easier to understand than a complex

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waveform. As such, it would have been obvious to modify the above combination to use an audible output, to simplify analysis of the brain waves.

Claims 54 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itil in view of MacNichol Jr and Lee, as applied to claims 48. 49, 51, 52, 55, 59, 65, and 68 above, further in view of Zimmerman et al 5279305. Zimmerman shows an EEG processing system including a headband with electrodes 23, 24 and 25 including a positive and negative electrode. In addition, it is inherent that there is a ground. Hence, it would have been obvious to modify the above combination to use such an electrode arrangement, as it is merely the substitution of one known configuration of electrodes for another. Claim 66 is rejected in that applicant has not stated that the specific number of electrode sand amplifiers is for a specific purpose or that they solve a stated problem. As such, it appears that the exact number of electrodes and amplifiers would have been a mere matter of design choice for one skilled in the art.

Claim 69 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itil et al in view of MacNichol Jr and Lee, as applied to claims 48, 49, 51, 52, 55, 59, 65, and 68 above, further in view of, further in view of John 5287859. John further teaches that split-half rectification is a known processing technique to identify brain dysfunction. As such, it would have been obvious to modify the above combination to use such a technique, as it is merely the substitution of one known equivalent processing technique for another.

Claims 45-47 are allowed. Claims 45-47 define over the art of record in that none of the art compares the F ratio in the presence and absence of stimulation with

control data to diagnose injury or dysfunction of the spinal cord, brain stem, or brain, as claimed.

Applicant's arguments filed 2/5/2007 have been fully considered but they are not persuasive.

Applicant's comments on the rejection based on Yasushi are moot in view of the new grounds of rejection.

Applicant has asserted that Itil does not disclose a sound generator. The examiner agrees, but notes Itil is used in an obviousness combination.

Applicant has asserted that lee does not have a selectively adjustable or a sound generator. Again, the examiner aggress, but notes that there is no requirement that each reference of a combination have each feature of the claims. Indeed, that would obliterate 35 U.S.C. 103.

Applicant has further asserted that cerebral death is not brain dysfunction. The examiner notes that there is no definition of brain dysfunction on the record and that a person who suffered cerebral death would have a brain that is not functioning normally.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is 571 272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert L. Nasser Primary Examiner Art Unit 3735

Kuts Masoy

RLN March 20, 2007